L34 ANSWER 1 OF 4 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN

2002-11189 BIOTECHDS

of Helicobacter pylori infection; Detection of Helicobacter pylori catalase activity in biological samples for diagnosis

antibody and enzyme immobilization for bacterium disease

SUZUKI N; WAKASUGI M; MOCHIDA R; HIRATA H diagnosis

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Patent

Japanese

WPI: 2002-227351

DERWENT ABSTRACT:

pylori catalase. NOVELTY - Diagnosis of Helicobacter pylori tract or feces specifically due to Helicobacter infection by measurement of catalase activity in digestive

Helicobacter pylori catalase. An INDEPENDENT CLAIM is included for kits for the diagnostic method activity in digestive tract or feces specifically due pylori infection, comprising measurement of catalage BIOTECHNOLOGY - Preferred Method: The Helicobacter DETAILED DESCRIPTION - Diagnosis of Helicobacter 6

catalases by ion-exchange or an immunochemical method. pylori catalase in the sample is separated from other

detection of infection by Helicobacter pylori USE - The method is useful for simple and effective

EXAMPLE - Monoclonal antibody specific to

while samples negative for the catalase had oxygen evolution reces samples Oxygen evolution of 8-12 parts per million on a multiwell plate. A sample of feces (3g) was suspended in Helicobacter pylori catalase was immobilized evolution in the wells was measured using a Chemetrics K-7512 apparatus minutes. The supernatant phosphate buffer (12 ml) and centrifuged at 4 degrees C/3000 rpm for 15 below 1 ppm. (18 pages) (0.2 ml/well) was added. After one hour at room temperature, oxygen hour at room temperature the plate was washed and 5 mM hydrogen peroxide positive for the Helicobacter catalase, (0.2 ml/well) was added to the plate. After one (ppm) or more was shown by